CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.08/MM/CEMENT/2014-15

Date: 19.07.2014

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Mr. Murali Mohan**, Contractor, Bangalore.
NAME OF THE WORK	:	Improvements to Roads and Drains at Kodigehalli Old Village area in Ward No.08, Kodigehalli, BBMP, Bangalore.
REFERENCE	:	AEE/KO/(WO)/35/2014-15 Dated: 18.07.2014
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	480 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	25.50 %	-

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Note:

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Job No.: CTCE/BBMP/W.No.08/MM/SAND/2014-15 : 19.07.2014

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Mr. Murali Mohan,** Contractor, Bangalore.

Name of Work : Improvements to Roads and Drains at Kodigehalli Old Village area in Ward No.08, Kodigehalli, BBMP, Bangalore.

Reference : AEE/KO/(WO)/35/2014-15 Dated: 18.07.2014

Date of Testing : 19.07.2014

Material : Sand Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	98	4.90	4.90	95.1	90-100
2.36	227	11.35	16.25	83.8	75-100
1.18	506	25.30	41.55	58.5	55-90
600 Micron	417	20.85	62.40	37.6	35-59
300 Micron	498	24.90	87.30	12.7	8-30
150 Micron	205	10.25	97.55	2.5	0-10

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Job No.: CTCE/BBMP/W.No.08/MM/AGG/2014-15 : 19.07.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Mr. Murali Mohan,** Contractor, Bangalore.

Name of Work : Improvements to Roads and Drains at Kodigehalli Old Village area in Ward No.08, Kodigehalli, BBMP, Bangalore.

Reference : AEE/KO/(WO)/35/2014-15 Dated: 18.07.2014

Date of Testing : 19.07.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **25500**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	1012	3.97	3.97	96.03	95-100
20	15548	60.97	64.94	35.06	30-70
10	5987	23.48	88.42	11.58	10-35
4.75	2582	10.13	98.55	1.45	

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NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.08/MM/CUBE/2014-15 22.08.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive** Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Agency	: **Mr. Murali Mohan,** Contractor, Bangalore.
Name of the work	: Improvements to Roads and Drains at Kodigehalli Old Village area in Ward No.08, Kodigehalli, BBMP, Bangalore.
Reference	: AEE/KO/(WO)/35/2014-15 Dated: 18.07.2014
Sample ID	: Pavement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.07.2014	22.08.2014	8.162	490.6	21.80
2	25.07.2014	22.08.2014	8.394	522.4	23.22
3	25.07.2014	22.08.2014	8.275	506.9	22.53

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